

a fluidized-bed furnace is divided by a partition wall into a gasification furnace and a combustion furnace;

a revolving flow of a fluidized medium in which an intense fluidizing region of the fluidized medium is formed so as to have a substantially high fluidizing velocity in the fluidized-bed in a certain region, thus generating an upward flow of the fluidized medium, and a weak fluidizing region of the fluidized medium is formed so as to have a substantially low fluidizing velocity in the fluidized-bed in another region, thus generating a descending flow of the fluidized medium, is formed in at least one of said gasification furnace and said combustion furnace;

a circulating flow of the fluidized medium is formed between said gasification furnace and said combustion furnace; and

a heat transfer surface is disposed in said combustion furnace.

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**REMARKS**

Kindly enter the above new claims prior to initial examination.

Respectfully submitted,

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